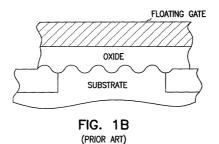


(PRIOR ART)



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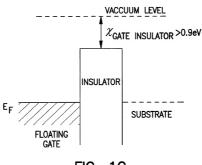


FIG. 1C (PRIOR ART)

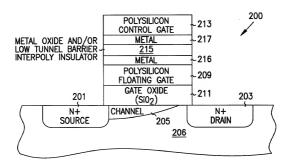
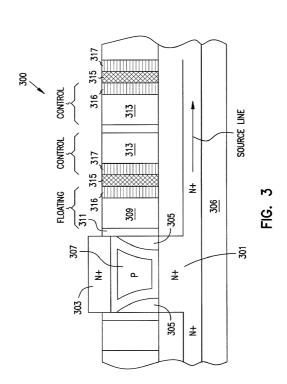
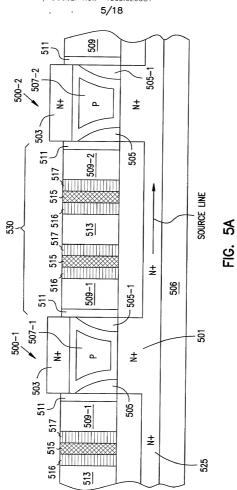
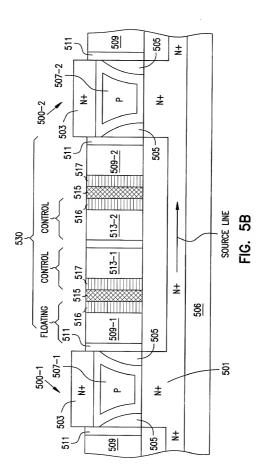


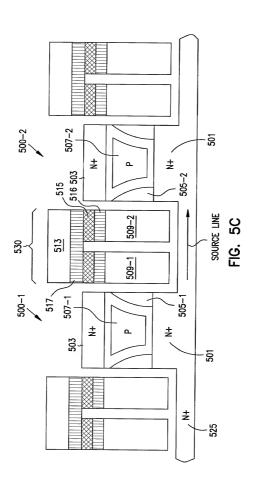
FIG. 2



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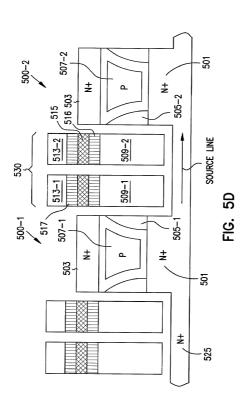


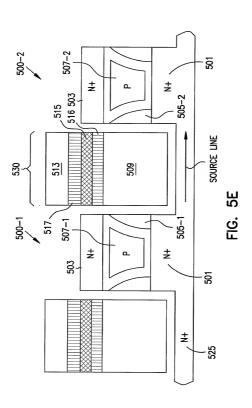


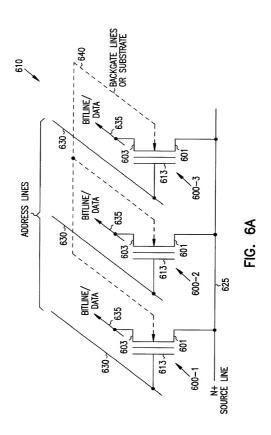


BARRIERS INVENTORS NAME:

NTORS NAME: Leonard Forbes et al. , DOCKET NO.: 1303.020US1







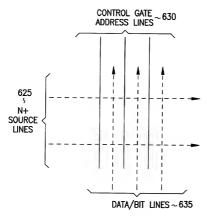
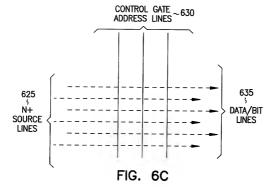


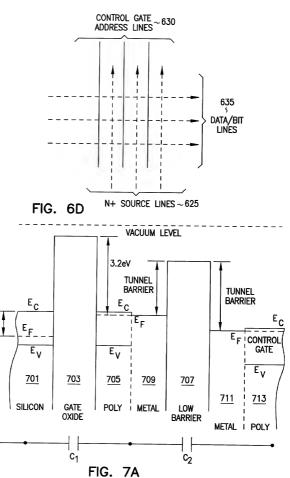
FIG. 6B



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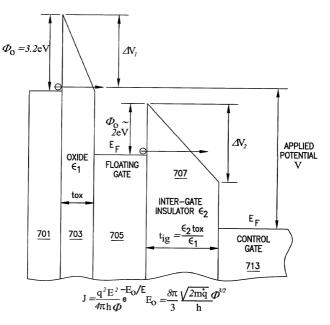


FIG. 7B

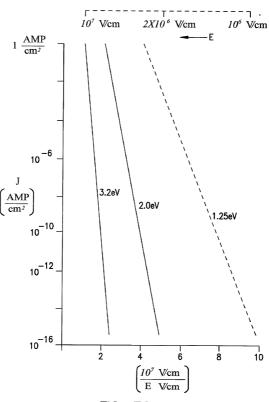


FIG. 7C

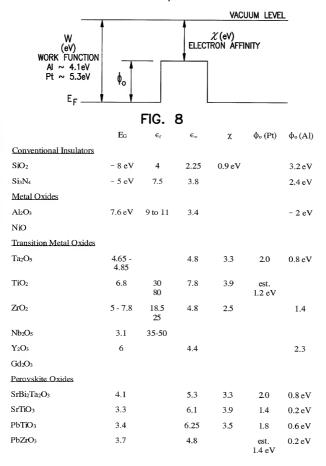


FIG. 9

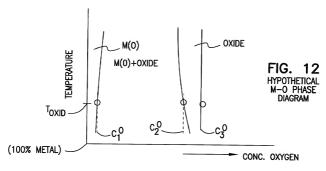
| Metal | Osygen Solub.**, at. % | Oxide Stability Range*** | Semicond. Type | Structure Temp. | Transform Temp., °C |
|-------|------------------------------|--------------------------------|-------------------|--------------------|------------------------|
| Ta | 0.8 | TaO _{4.7-50} | n | Orthorhom. | t.p. 1350 |
| Ti | 28 | TiO _{3 82-5.0} | n | Rutile | m.p. 1920 |
| Zr | 29 | ZrO _{3 66-5.0} | n | Monoclinic | t.p. 1170 |
| Nb | 2.3 | $Nb_2O_{486-5.0}$ | n | Monoclinic | m.p. 1495 |
| Al | v. small | $Al_2O_{2.999-3.0}$ | n | Corundum | m.p. 2050 |
| Pb | v. small | РЬО | (p) | Orthorhom. | m.p. 885 |
| Si | v. small | SiO ₂ | n or p | Tetra. (Cyst.) | m.p. 1713 |

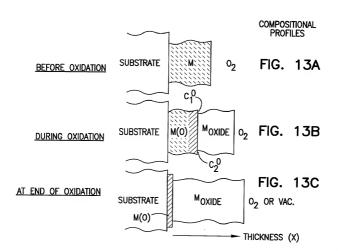
FIG. 10

| Metal | From C-V | Work Function, eV From Photoresponse | From Vacuum |
|-------|----------|---|-------------|
| Cs | | | 2.2 |
| Eu | | | 2.5 |
| Sm | | | 2.7 |
| Li | | | 2.9 |
| Ca | | | 3.0 |
| Al | 4.1 | 4.1 | 4.25 |
| Cu | 4.7 | 4.7 | 4.25 |
| Au | 5.0 | 5.0 | 4.8 |
| Ag | 5.1 | 5.05 | 4.3 |
| Ti | | | 4.3 |
| Mo | | | 4.7 |
| Rh | | | 5.1 |
| Ir | | | 5.3 |
| Pt | | | 5.8 |
| Se | | | 5.9 |

FIG. 11







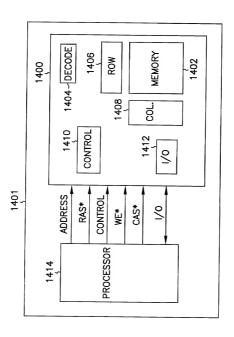


FIG. 14